

2026-04-21

Time of Issue: 08:00:00 hours IST
(Morning)

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Weather Forecast and Warnings:

Northwest India:

- ♦ **Isolated to Scattered** light to moderate rainfall/snowfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 24th & 25th; Himachal Pradesh on 25th & 26th April.

Northeast India:

- ♦ **Fairly widespread to widespread** light to moderate rainfall with **thunderstorm, lightning gusty winds (speed reaching 30-50 kmph)** likely over Arunachal Pradesh on 21st; Assam & Meghalaya during 21st -24th; Nagaland, Manipur, Mizoram & Tripura on 21st April; **with lightning** over **Nagaland, Manipur, Mizoram & Tripura on 22nd & 23rd** April.
- ♦ **Isolated heavy rainfall** likely over Arunachal Pradesh on 21th-22nd, 25th & 26th; Assam & Meghalaya on 21st with isolated **very heavy rainfall** likely over Arunachal Pradesh on 21st April.

East India:

- ♦ **Isolated to scattered light** to moderate rainfall with **thunderstorm, lightning gusty winds (speed reaching 30-50 kmph)** likely over Sub-Himalayan West Bengal & Sikkim during 21st-26th; Gangetic West Bengal on 26th; Jharkhand on 24th; Odisha during 21st-24th April.
- ♦ **Thundersquall (wind speed reaching 50-60 kmph gusting to 70 kmph)** likely over Bihar on 21st, 24th & 25th April.

Central India:

- ♦ **Isolated** light rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Chhattisgarh & Vidarbha on 21nd April.

South Peninsular India:

- ♦ **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Kerala & Mahe on 21st -22nd; South Interior Karnataka, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema on 21st -24th; **with lightning** over Tamil Nadu during 21st-23rd; Coastal Karnataka, North Interior Karnataka during 21st -24th April.

West India:

- ♦ **Isolated** light to moderate rainfall with **thunderstorm, lightning & gusty winds (speed reaching 30-50 kmph)** likely over Madhya Maharashtra, Marathwada during 21th -24th; **with lightning** over Konkan & Goa on 21st & 23rd April.

Forecast of maximum/day temperatures:

- ♦ Gradual rise in maximum temperatures by 3-4°C likely over Northwest India on 21th-24th April and no significant change on 25th & 26th April.
- ♦ No significant change in maximum temperatures likely over central India during 21th-22nd and Gradual rise in maximum temperatures by 2-3°C thereafter during 23th – 26th April.
- ♦ No significant change in maximum temperatures likely over Northeast India on 21th-22nd and Gradual rise in maximum temperatures by 2-3°C thereafter during 23th – 26th April.
- ♦ Gradual fall in maximum temperatures by 2-3°C likely over Maharashtra on 21st April and no significant change

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- during 22nd -24th April and thereafter Gradual rise in maximum temperatures by 2-3°C on 25th & 26th April
- No significant change in maximum temperatures likely over Gujrat State during 21st-23rd and Gradual rise in maximum temperatures by 2-3°C thereafter during 24th – 26th April.
 - No significant change in maximum temperatures likely over rest parts of the country during 21st to 26th April.

Heat wave, Hot & Humid weather and Warm night warning:

- **Heat wave conditions** very likely in isolated pockets of Bihar on 21st; Haryana Chandigarh & Delhi, Punjab, East Rajasthan, Vidarbha, Chhattisgarh during 21th-24th, West Uttar Pradesh during 21th-25th, West Rajasthan on 22nd & 23rd; Madhya Pradesh during 22nd – 24th; Gangetic West Bengal on 22nd, Jharkhand on 21th – 22nd, Odisha during 22nd -24th; and **Scattered** pockets of East Uttar Pradesh on 23rd April.
- **Hot & humid weather conditions** very likely to prevail in isolated pockets over Gangetic West Bengal during 21st-26th; Tamil Nadu, Puducherry & Karaikal on 21st – 22nd; Kerala & Mahe, Coastal Andhra Pradesh & Yanam during 21th -24th; coastal areas of Gujrat on 24th & 25th April.
- **Warm night conditions** very likely to prevail in isolated pockets over Haryana, Chandigarh, West Uttar Pradesh, Madhya Pradesh, Vidarbha on 21th and Odisha during 21st-22nd April.

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Main Weather Observations:

❖ **Rainfall distribution** (from 0830 hours IST of yesterday to 0530 hours IST of today): **at most places** over Arunachal Pradesh, Assam & Meghalaya, Vidarbha and Coastal Karnataka; **at many places** over Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura, Odisha and North Interior Karnataka; **Dry** over rest of the country.

❖ **Significant rainfall recorded(in cm)** (from 0830 hours IST of yesterday to 0530 hours IST of today): **Arunachal Pradesh:** Itanagar (dist Papum Pare) 4, Pasighat (dist East Siang) 1; **Assam & Meghalaya:** Dibrugarh (dist Dibrugarh), Guwahati (dist Kamrup Metropolitan) 4 Each, North Lakhimpur (dist Lakhimpur), Silchar (dist Cachar), Shillong (dist East Khasi Hills) 2 Each; **Odisha:** Gopalpur (dist Ganjam), Keonjhar (dist Kendujhar) 1 Each.

❖ **Minimum Temperature Departures (as on 20-04-2026):** **Minimum/night Temperature** were **appreciably above normal (3.1°C to 5.0°C)** over Uttar Pradesh, Madhya Pradesh, Bihar, Chhattisgarh, Vidarbha, Jharkhand, Odisha, **above normal(1.6 to 3.0°C)** Himachal Pradesh, Uttarakhand, West Rajasthan, West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Marathwada, South Interior Karnataka, **below normal (-3.0°C to -1.6°C)** on North Interior Karnataka and near normal over rest parts of the country. **Today, the lowest minimum temperature of 16.5 °C was observed at Gurdaspur (Punjab) over the plains of India.**

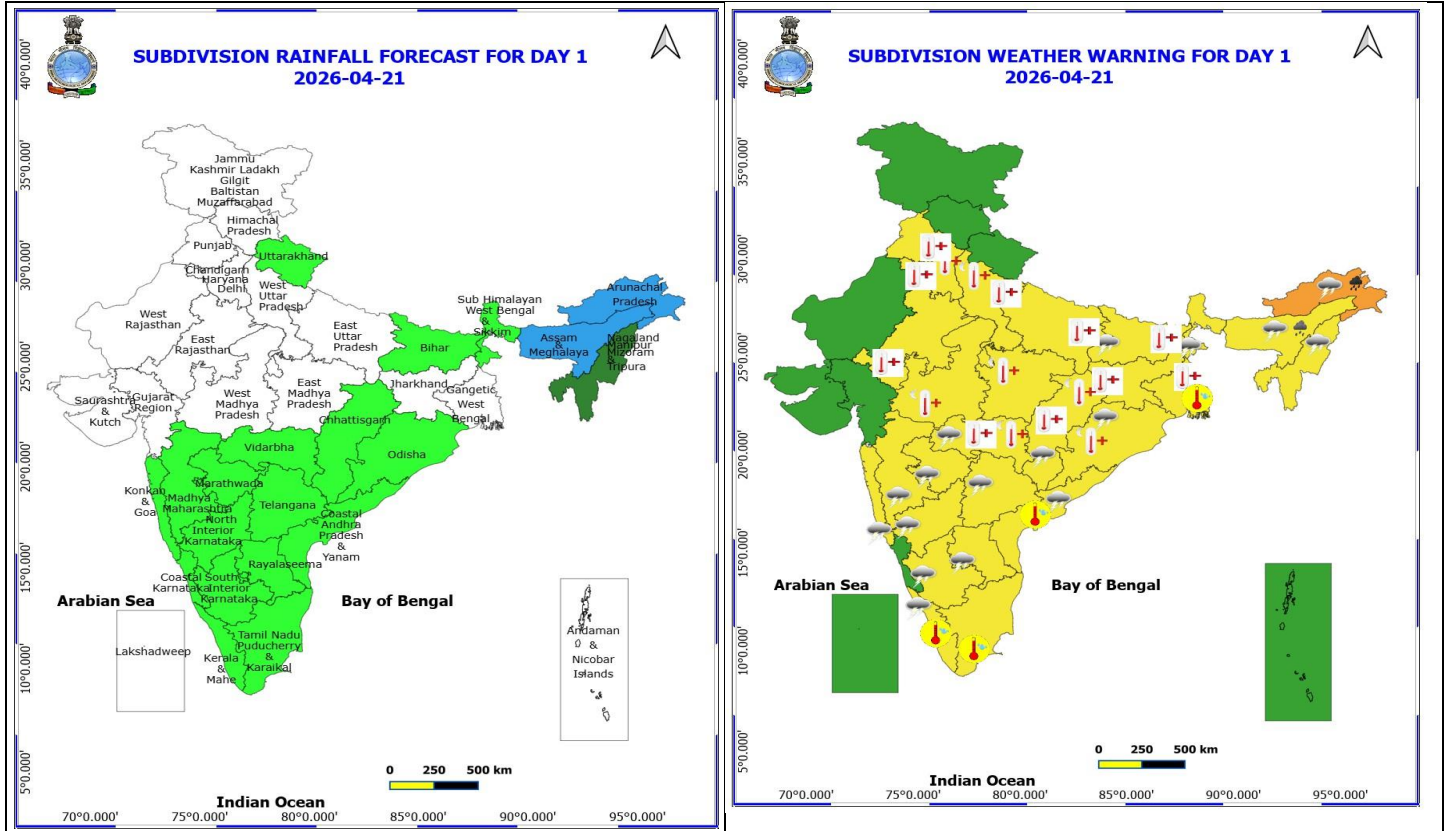
❖ **Maximum Temperature Departures (as on 20-04-2026):** **markedly above normal(> 5.1°C)** at few places over Himachal Pradesh; at isolated places over Bihar, Uttarakhand and Chhattisgarh. **appreciably above normal(3.1°C to 5.0°C)** at many places over Jharkhand and East Uttar Pradesh; at few places over West Uttar Pradesh, Haryana-Chandigarh-Delhi, Punjab, Jammu-Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh, East Madhya Pradesh and Kerala & Mahe; at isolated places over Gangetic West Bengal, East Rajasthan, Telangana and Tamil Nadu, Puducherry & Karaikal. **above normal(1.6°C to 3.0°C)** at many places over West Rajasthan; at most places over South Interior Karnataka; at few places over Sub Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Vidarbha and Rayalaseema; at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Odisha, Saurashtra & Kutch, Konkan & Goa, Coastal Andhra Pradesh & Yanam and North Interior Karnataka. **near normal(-1.5°C to 1.5°C)** at most places over Andaman & Nicobar Islands, Gujarat Region, Coastal Karnataka and Lakshadweep; at few places over Arunachal Pradesh. **The highest maximum temperature** of 44.4°C was reported at **ALLAHABAD (UTTAR PRADESH).**

Meteorological Analysis (Based on 0530 hours IST)

- ♦ The **Western Disturbance** as an **upper air cyclonic circulation** over Jammu & Kashmir & neighbourhood at 3.1 km above mean sea level persists.
- ♦ The **upper air cyclonic circulation** over southwest Rajasthan & neighbourhood at 0.9 km above mean sea level persists.
- ♦ The **upper air cyclonic circulation** over northeast Assam & neighbourhood at 1.5 km above mean sea level persists.
- ♦ The **trough/ wind discontinuity** from Telangana to Comorin area across Rayalaseema and Interior Tamil Nadu extending upto 1.5 km above mean sea level persists.
- ♦ The **north-south trough** from east Bihar to southwest Madhya Pradesh across Jharkhand and north Chhattisgarh at 0.9 km above mean sea level persists.
- ♦ The **Anti-cyclonic circulation** over interior Maharashtra & adjoining Telangana and North Interior Karnataka between 3.1 & 5.8 km above mean sea level persists.
- ♦ **Subtropical westerly Jet Stream** with core winds of the order of 95 knots at 12.6 km above mean sea level prevails over central India.
- ♦ A **fresh Western Disturbance** is likely to affect Western Himalayan region from 23rd April.

Weather Outlook for subsequent 3 days

- ♦ **Widespread** rainfall activity likely over Northeast India, Western Himalayan Region and Isolated rainfall activity over Gujarat and Western parts of Peninsular India.

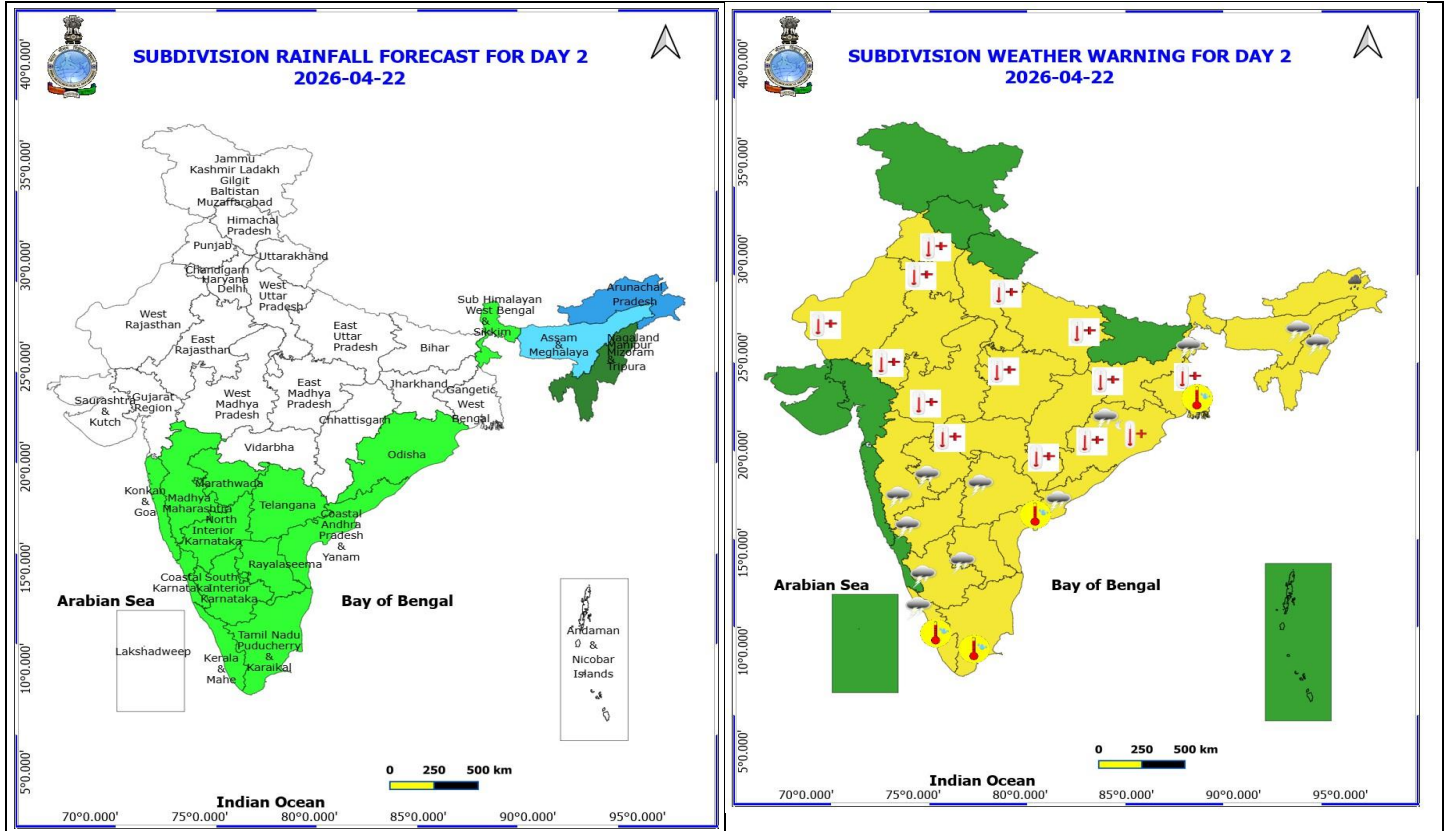


21 April (Day 1)

- ❖ **Heavy to Very Heavy Rainfall** very likely at isolated places over Arunachal Pradesh.
- ❖ **Heavy Rainfall** very likely at isolated places over Assam & Meghalaya.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** very likely at isolated places over Bihar.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Assam & Meghalaya, Chhattisgarh, Kerala & Mahe, Maharashtra, North Interior Karnataka and Odisha.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Arunachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Konkan & Goa.
- ❖ **Heat Wave conditions** very likely at isolated places over Bihar, Chhattisgarh, East Rajasthan, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Jharkhand, Punjab, Uttar Pradesh and Vidarbha.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Warm Night conditions** very likely at isolated places over Chhattisgarh, Haryana, Chandigarh & Delhi, Madhya Pradesh, Odisha, Vidarbha and West Uttar Pradesh.

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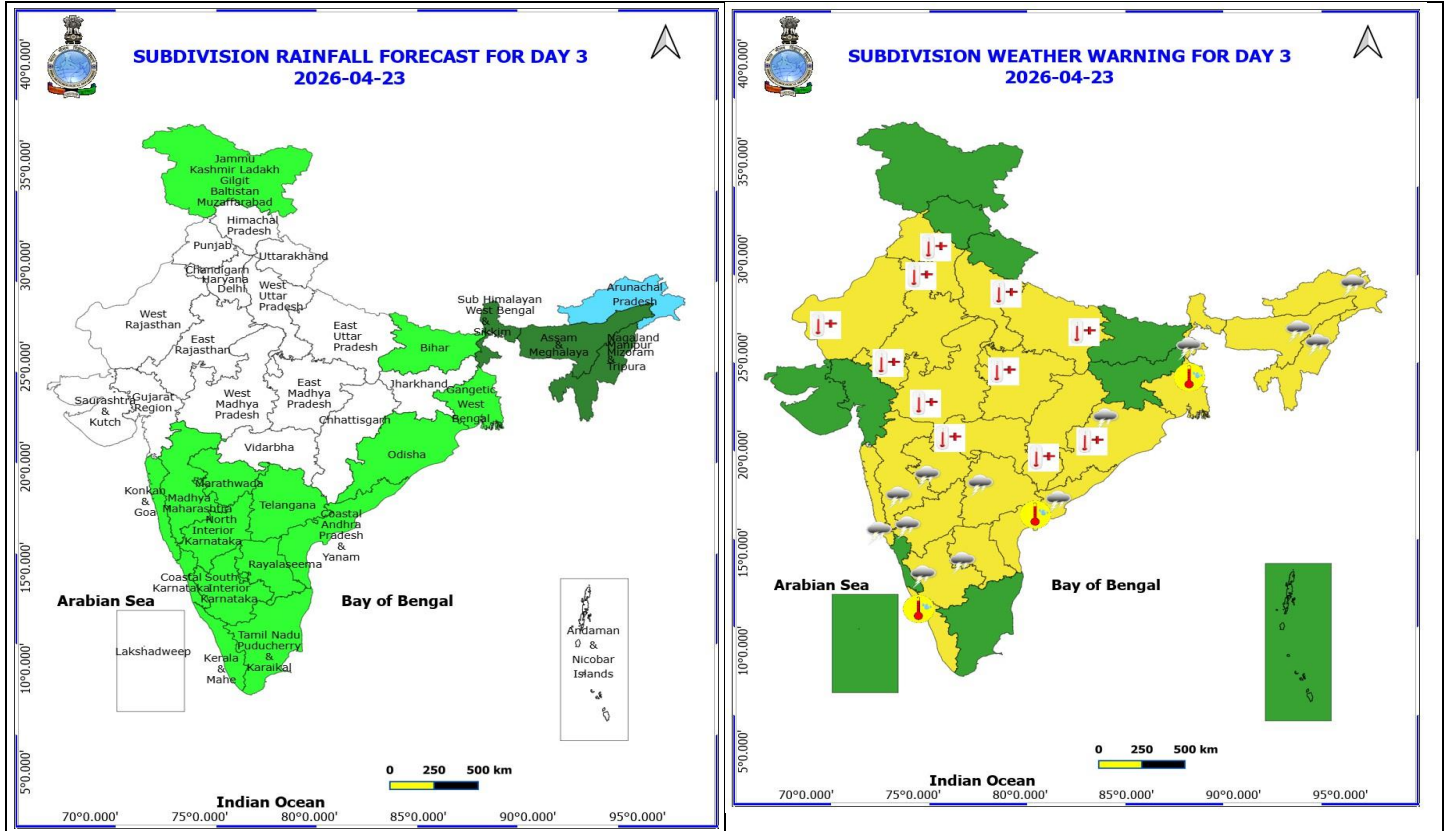
22 April (Day 2)

- ❖ **Heavy Rainfall** very likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Kerala & Mahe, Marathwada and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Madhya Maharashtra, Odisha, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heat Wave conditions** very likely at isolated places over Chhattisgarh, Gangetic West Bengal, Haryana, Chandigarh & Delhi, Jharkhand, Madhya Pradesh, Odisha, Punjab, Rajasthan, Uttar Pradesh and Vidarbha.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal, Kerala & Mahe and Tamil Nadu Puducherry & Karaikal.
- ❖ **Warm Night conditions** very likely at isolated places over Odisha.

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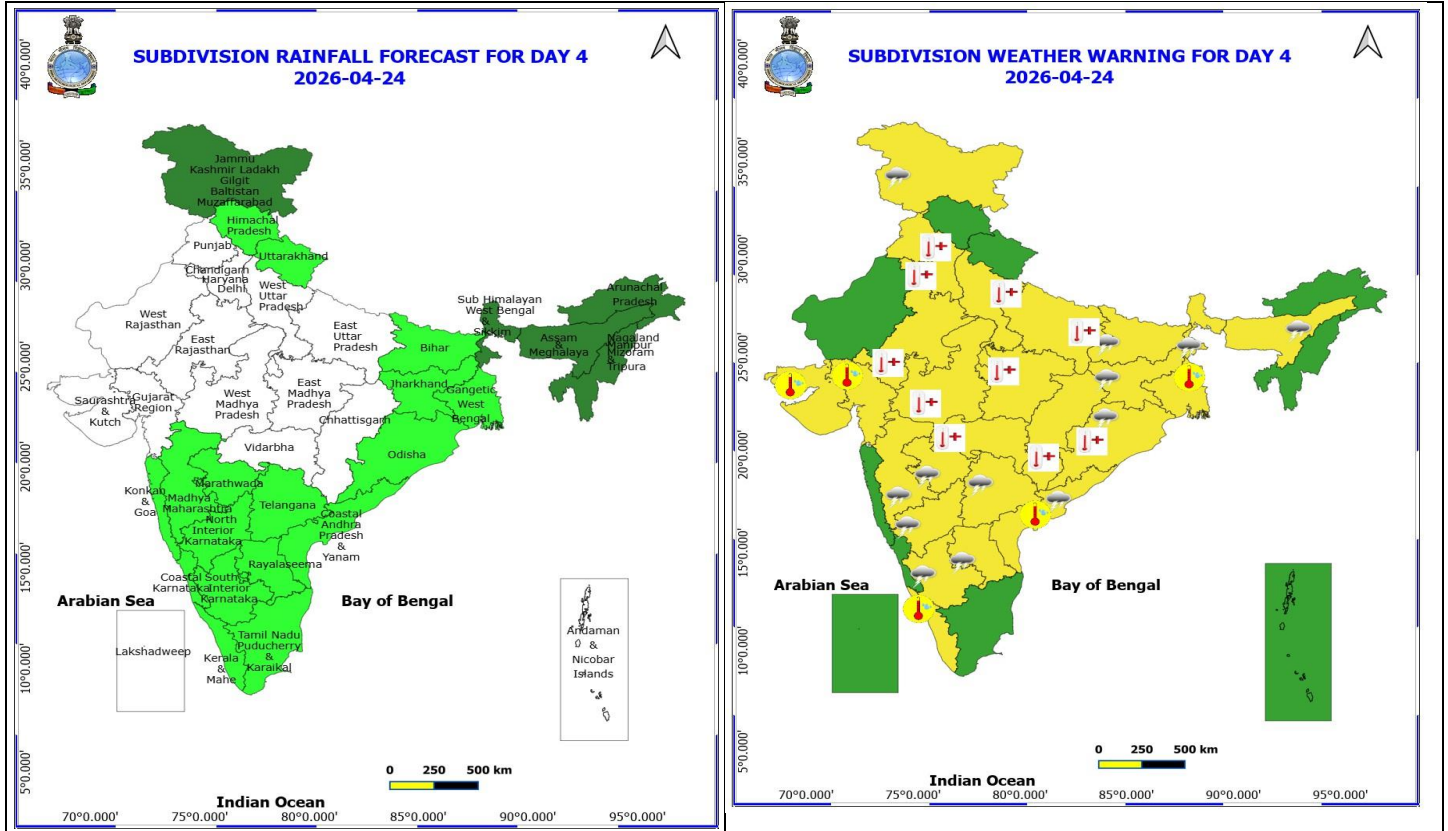
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23 April (Day 3)

- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** very likely at isolated places over Marathwada and North Interior Karnataka.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** very likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Madhya Maharashtra, Odisha, South Interior Karnataka, Sub Himalayan West Bengal & Sikkim and Telangana.
- ❖ **Thunderstorm accompanied with Lightning** very likely at isolated places over Arunachal Pradesh, Konkan & Goa and Nagaland, Manipur, Mizoram and Tripura.
- ❖ **Heat Wave conditions** very likely at isolated places over Chhattisgarh, Haryana, Chandigarh & Delhi, Madhya Pradesh, Odisha, Punjab, Rajasthan, Uttar Pradesh and Vidarbha.
- ❖ **Hot and Humid weather** very likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal and Kerala & Mahe.

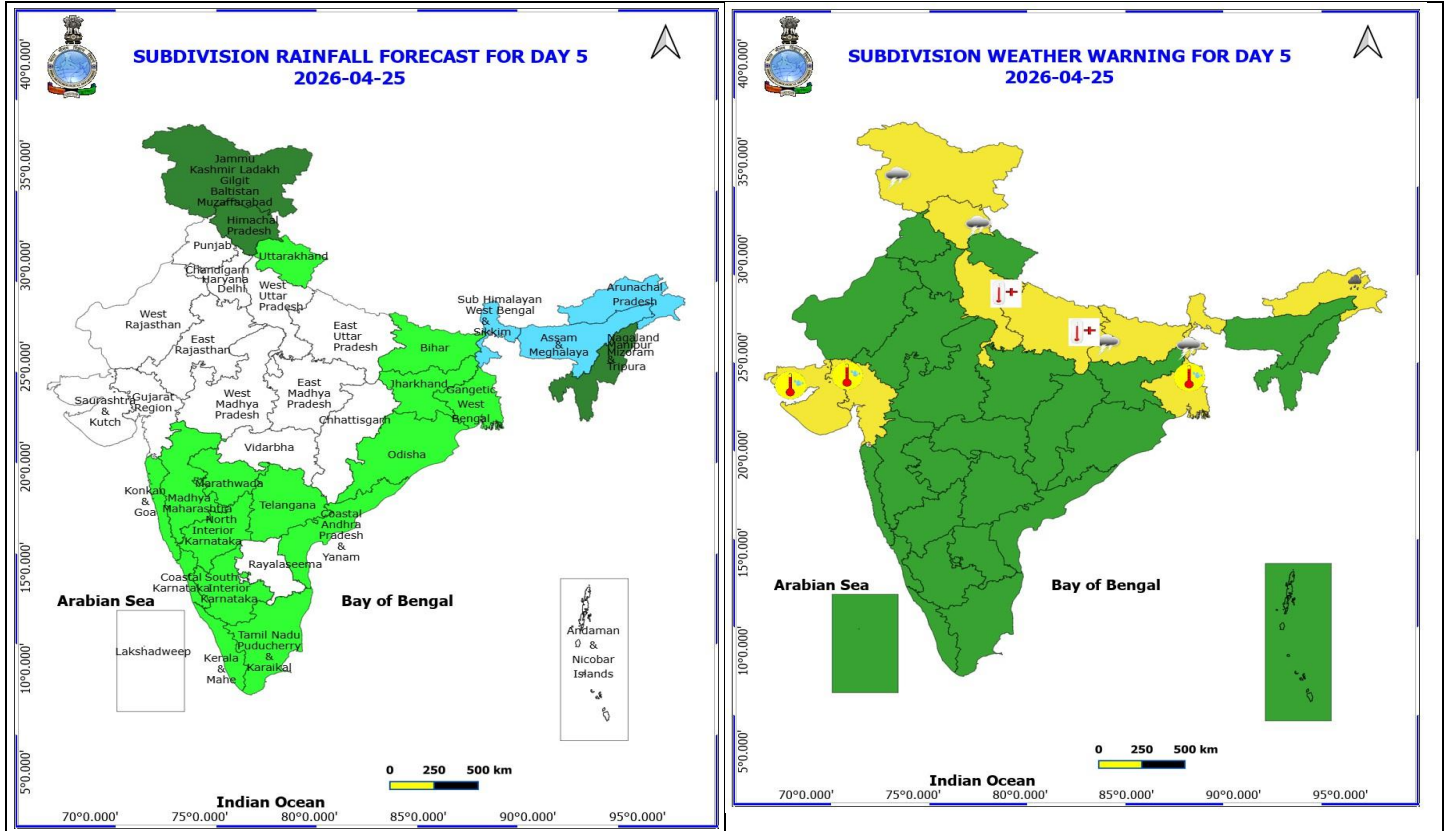
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24 April (Day 4)

- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Bihar.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Marathwada, North Interior Karnataka and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Andhra Pradesh, Assam & Meghalaya, Jharkhand, Madhya Maharashtra, Odisha, South Interior Karnataka and Telangana.
- ❖ **Heat Wave conditions** likely at isolated places over Chhattisgarh, East Rajasthan, Haryana, Chandigarh & Delhi, Madhya Pradesh, Odisha, Punjab, Uttar Pradesh and Vidarbha.
- ❖ **Hot and Humid weather** likely at isolated places over Coastal Andhra Pradesh, Gangetic West Bengal, Gujarat State and Kerala & Mahe.

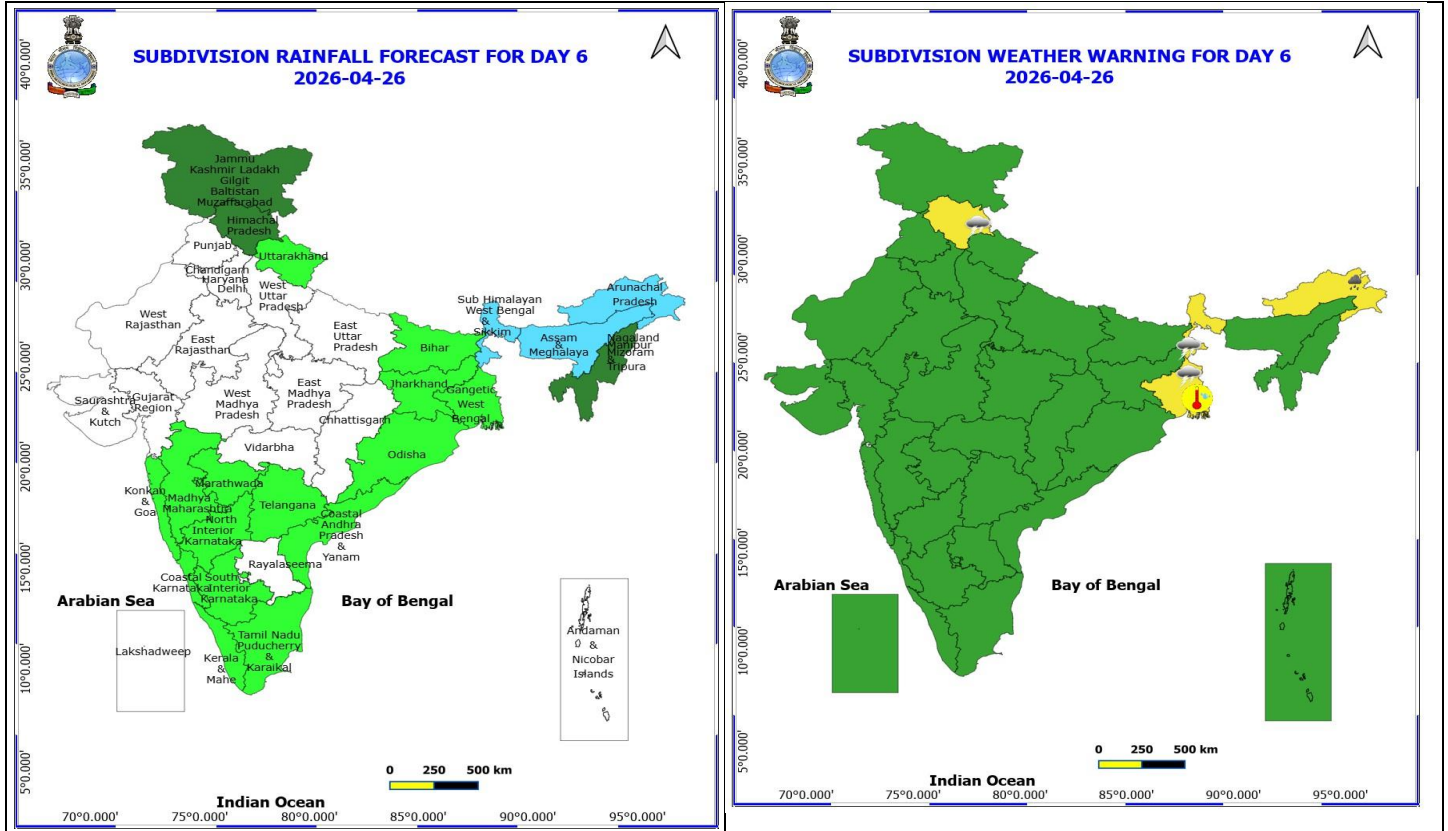
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25 April (Day 5)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thundersquall with wind speed reaching(50-60kmph)** likely at isolated places over Bihar.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Sub Himalayan West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Himachal Pradesh.
- ❖ **Heat Wave conditions** likely at isolated places over Uttar Pradesh.
- ❖ **Hot and Humid weather** likely at isolated places over Gangetic West Bengal and Gujarat State.

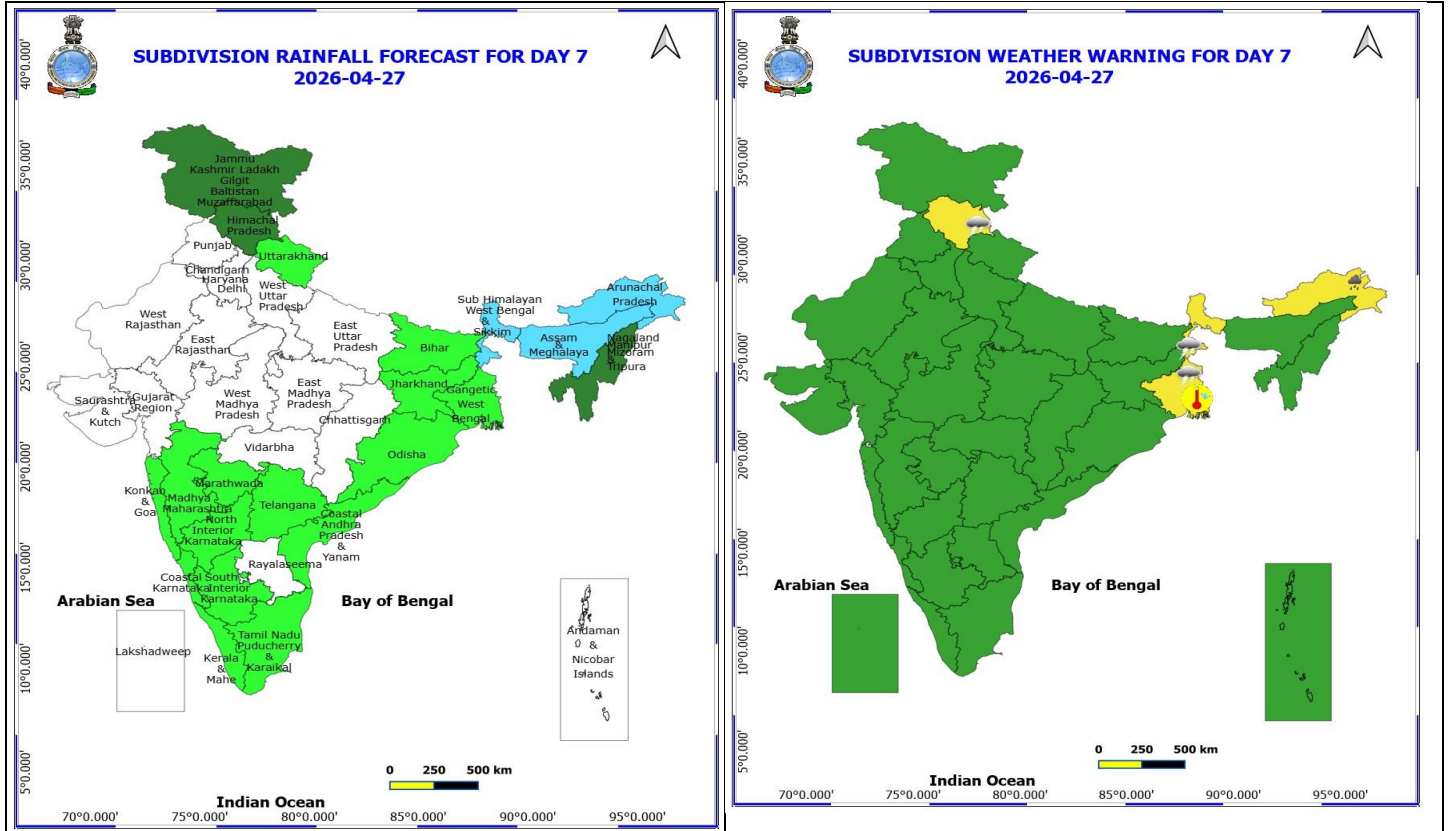
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26 April (Day 6)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Himachal Pradesh.
- ❖ **Hot and Humid weather** likely at isolated places over Gangetic West Bengal.

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27 April (Day 7)

- ❖ **Heavy Rainfall** likely at isolated places over Arunachal Pradesh.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(40-50kmph)** likely at isolated places over West Bengal & Sikkim.
- ❖ **Thunderstorm accompanied with lightning & gusty winds(30-40kmph)** likely at isolated places over Himachal Pradesh.
- ❖ **Hot and Humid weather** likely at isolated places over Gangetic West Bengal.

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Table-1

7 Days Rainfall Forecast

S.No.	Subdivision	21- Apr	22- Apr	23- Apr	24- Apr	25- Apr	26- Apr	27- Apr
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	DRY	DRY	DRY	DRY	DRY	DRY	DRY
2	ARUNACHAL PRADESH	WS	WS	FWS	SCT	FWS	FWS	FWS
3	ASSAM & MEHGHALAYA	WS	FWS	SCT	SCT	FWS	FWS	FWS
4	N. M. M. & T.	SCT	SCT	SCT	SCT	SCT	SCT	SCT
5	S.H. WEST BENGAL & SIKKIM	ISOL	ISOL	SCT	SCT	FWS	FWS	FWS
6	GANGETIC WEST BENGAL	DRY	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
7	ODISHA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
8	JHARKHAND	DRY	DRY	DRY	ISOL	ISOL	ISOL	ISOL
9	BIHAR	ISOL	DRY	ISOL	ISOL	ISOL	ISOL	ISOL
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
12	UTTARAKHAND	ISOL	DRY	DRY	ISOL	ISOL	ISOL	ISOL
13	HARYANA, CHD & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	DRY	DRY	DRY	DRY	DRY	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	DRY	ISOL	SCT	SCT	SCT
16	JAMMU AND KASHMIR AND LADAKH	DRY	DRY	ISOL	SCT	SCT	SCT	SCT
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
21	GUJRAT REGION	DRY	DRY	DRY	DRY	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
24	MADHYA MAHARASHTRA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
25	MARATHWADA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
27	CHATTISGARH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
28	COASTAL ANDHRA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
34	SOUTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
35	KERALA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
36	LAKSHDWEEP	DRY	DRY	DRY	DRY	DRY	DRY	DRY

Legend	Category	%Stations
WS	Widespread/Most Places	76-100
FWS	Fairly Widespread/Many Places	51-75
SCT	Scattered/ A Few Places	26-50
ISOL	Isolated Places	1-25
DRY	No Rain	0

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Fig. 1: Maximum Temperatures Dated 2026-04-20

Fig. 2: Departure of Maximum Temp. Dated 2026-04-20

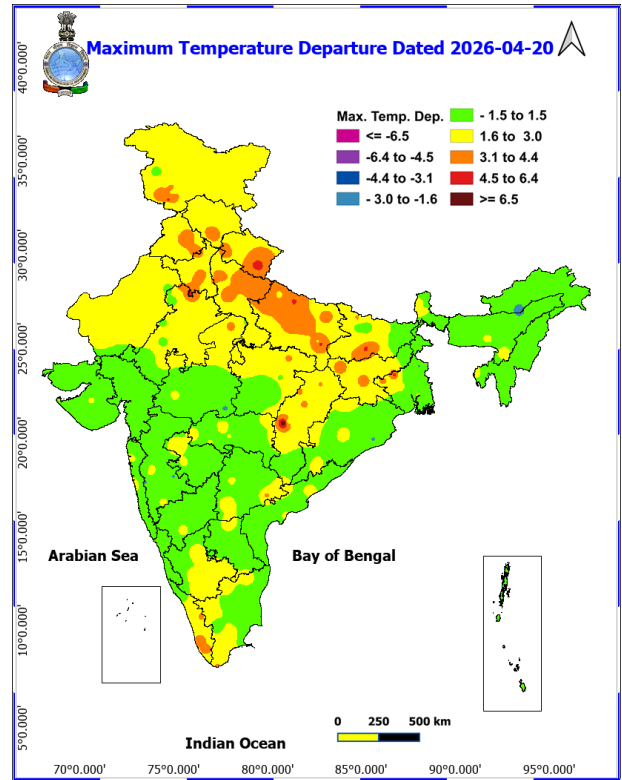
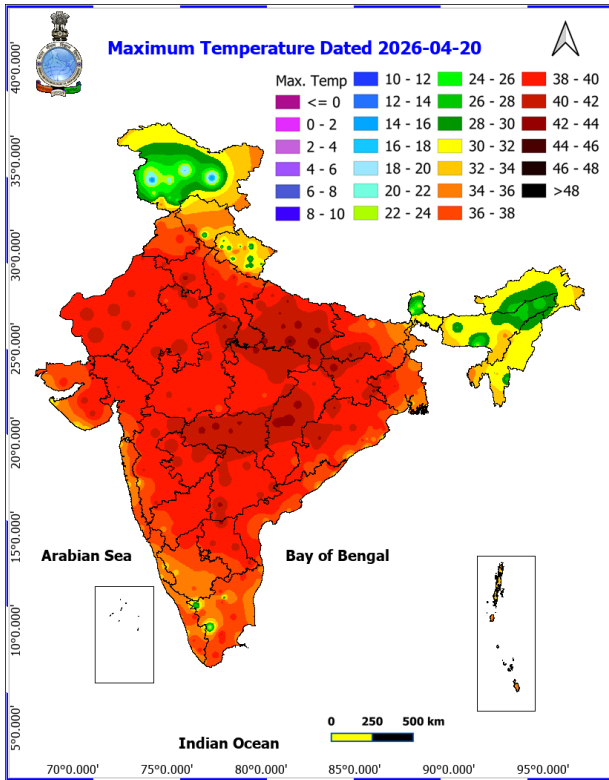
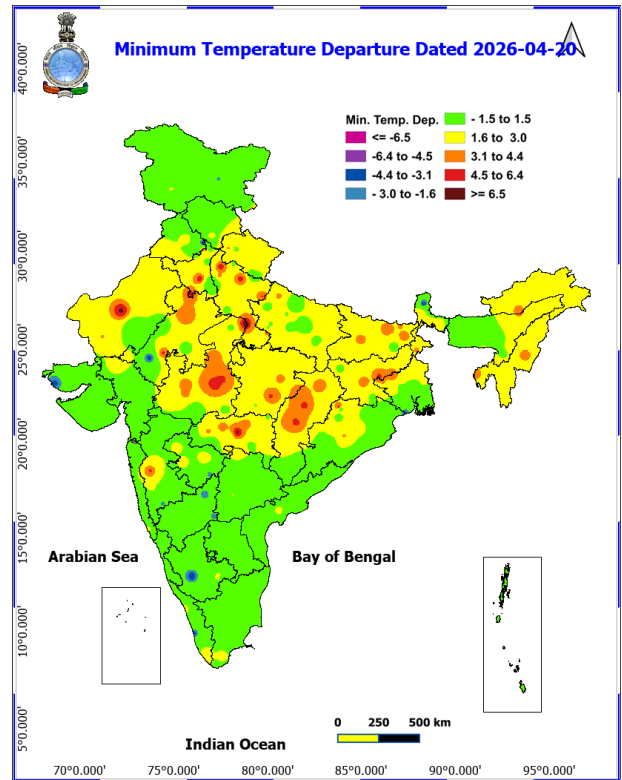
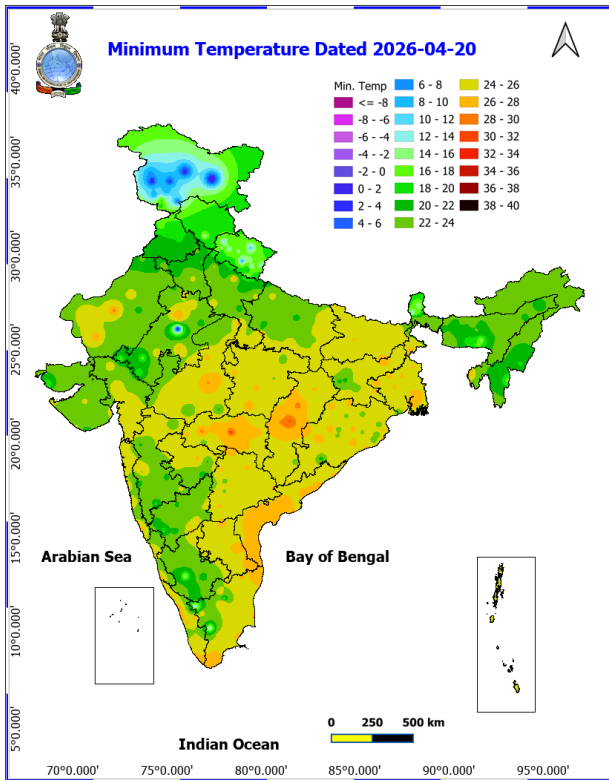


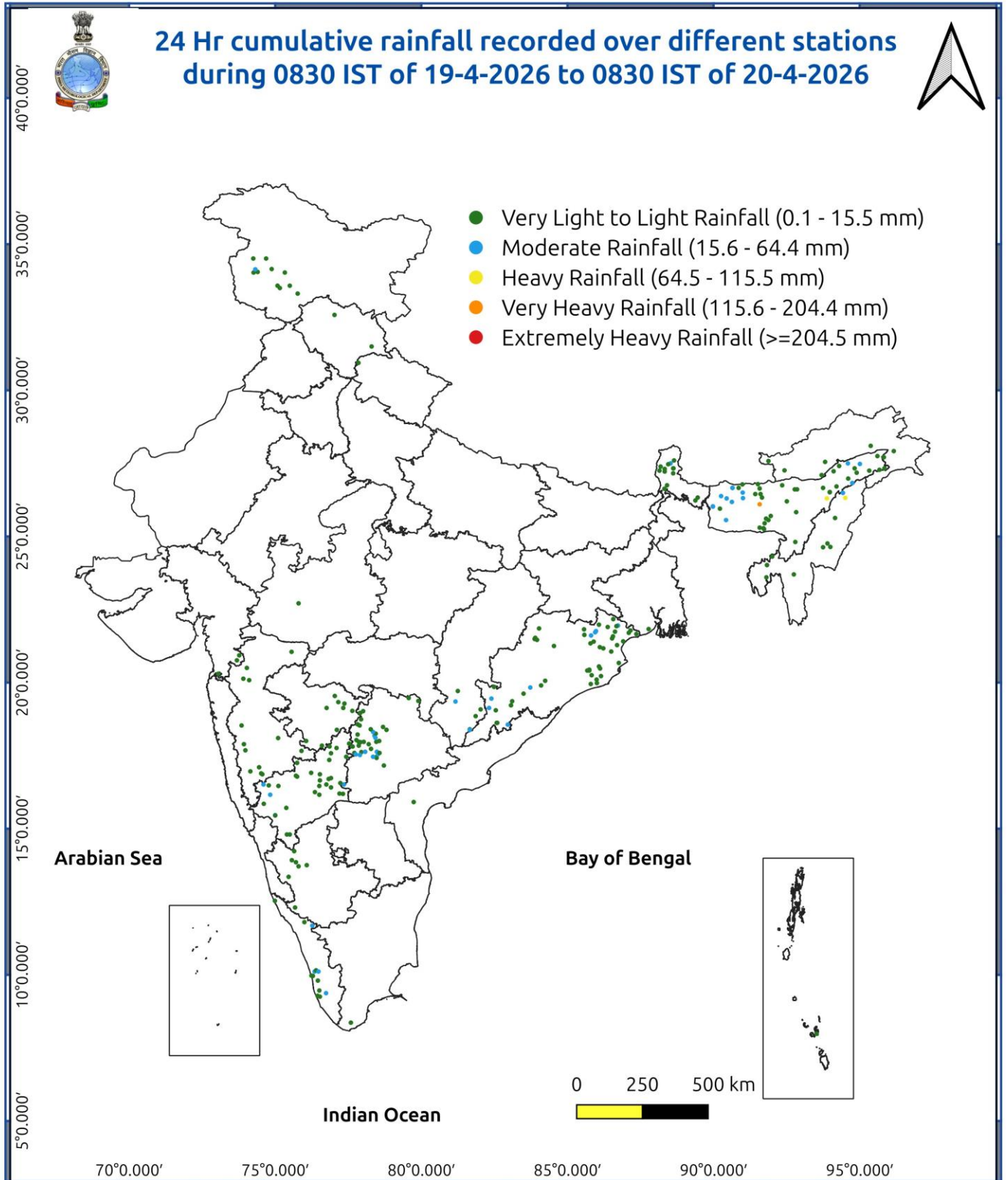
Fig. 3: Minimum Temperatures Dated 2026-04-20

Fig. 4: Departure of Minimum Temp. Dated 2026-04-20



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Impact and Actions

Impact & suggested due to heavy rainfall

Isolated heavy rainfall likely over Arunachal Pradesh on 21st-22nd, 25th & 26th; Assam & Meghalaya on 21st with isolated **very heavy rainfall** likely over Arunachal Pradesh on 21st April.

Impact Expected

- ♦ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas.
- ♦ Occasional reduction in visibility due to heavy rainfall.
- ♦ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- ♦ Minor damage to kutcha roads.
- ♦ Possibilities of damage to vulnerable structure.
- ♦ Localized Landslides/Mudslides/landslips/mudslips/landsinks/mudsinks.
- ♦ Damage to horticulture and standing crops in some areas due to inundation.
- ♦ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Action Suggested

- ♦ Check for traffic congestion on your route before leaving for your destination.
- ♦ Follow any traffic advisories that are issued in this regard.
- ♦ Avoid going to areas that face the water logging problems often.
- ♦ Avoid staying in vulnerable structure.

- ♦ **Impact expected and action suggested due to Heat wave conditions** very likely in isolated pockets of Punjab, East Rajasthan, Vidarbha, Chhattisgarh during 21st-24th, West Uttar Pradesh during 21st-25th, West Rajasthan on 22nd & 23rd; Madhya Pradesh during 22nd – 24th; Gangetic West Bengal on 21st & 22nd, Jharkhand during 21st – 22nd, Odisha during 22nd -24th; and **Scattered** pockets of East Uttar Pradesh on 23rd April.

Alert Areas

- ♦ High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- ♦ High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- ♦ Avoid heat exposure– keep cool. Avoid dehydration.
- ♦ Drink sufficient water- even if not thirsty.
- ♦ Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

Agromet advisories for various parts of the country

Agromet advisories for likely impact of Hailstorms

- ♦ In **Madhya Maharashtra, Marathwada and Telangana**, use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage.
- ♦ Ensure effective field drainage to prevent waterlogging. Undertake picking of matured fruits at the earliest. Keep the harvested produce in safe places.

Agromet advisories for likely impact of Heavy Rainfall

- ♦ In **Arunachal Pradesh**, harvest cabbage, pea, mustard, late-maturing paddy varieties & potatoes carefully and

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shift the harvested produce to safe places. Ensure proper drainage channels in the fields of rice, maize, other standing crops, vegetables, and orchards.

- In **Assam and Meghalaya**, make necessary arrangements to remove excess rainwater from the crop fields.

Agromet advisories for likely impact of High temperatures/ Heat Waves

- **Maharashtra** - In **Konkan**, irrigate green gram, vegetables, and newly planted areca nut and coconut. In **Vidarbha**, apply need-based light and frequent irrigation to summer green gram, groundnut, onion, sunflower, sesame, fodder crops, orchards, and vegetables during cooler hours. Use straw mulch in vegetable and orchard crops to reduce evaporation, and install shade nets for newly planted crops.
- **Gujarat** – Apply light and frequent irrigation to standing crops like cluster bean, cucumber, ridge gourd, bottle gourd, sponge gourd, and bitter gourd during morning or evening hours. Irrigate groundnut at the flowering and pegging stages.
- **Odisha**- Provide light irrigation to *Boro* paddy, summer maize, green gram, black gram, groundnut, and vegetable fields. Ensure adequate soil moisture is maintained in mango and cashew crops.
- **Madhya Pradesh** – Apply light irrigation to maize, *moong*, *urd*, groundnut and vegetable crops as per requirement.
- **Chhattisgarh** - Apply light irrigation after weeding and hoeing in *rabi* maize, banana, and papaya plantations. Complete harvesting of wheat and chickpea, and ensure safe storage.
- **Jharkhand**- Apply light and frequent irrigation to the standing crops. Carry out mulching with crop residue, straw or polythene to minimize the loss of soil moisture. Use temporary shade nets to protect the fruit plants from high temperatures.
- **Andhra Pradesh**- Provide light irrigation to maintain adequate moisture in standing crops such as paddy, *rabi* maize, sorghum, chickpea, groundnut, sesame, sugarcane, vegetables, and fruit orchards.
- **Punjab and Haryana** – Provide light irrigation to maintain adequate moisture in standing crops such as summer *moong*, cotton, vegetables, mango, guava & loquat.
- **Uttar Pradesh** - Provide light irrigation to maintain adequate moisture in standing crops such as hybrid maize, Zaid black gram, green gram, vegetables and sugarcane
- **Rajasthan** - Provide light irrigation to maintain adequate moisture in standing crops such as Zaid moong, American cotton & *Desi* cotton, okra, watermelon, muskmelon, tinda, cucumber & long melon
- **Karnataka** - Provide protective irrigation to standing crops such as sugarcane, sesame, green gram, black gram, arecanut, vegetables, and nurseries.
- In regions experiencing hot and humid conditions, including **Tamil Nadu, Kerala, and Gangetic West Bengal, Coastal Karnataka and Coastal Andhra Pradesh** apply light irrigation to summer crops and vegetables to maintain soil moisture.
- Apply mulching to conserve soil moisture in the standing crops.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

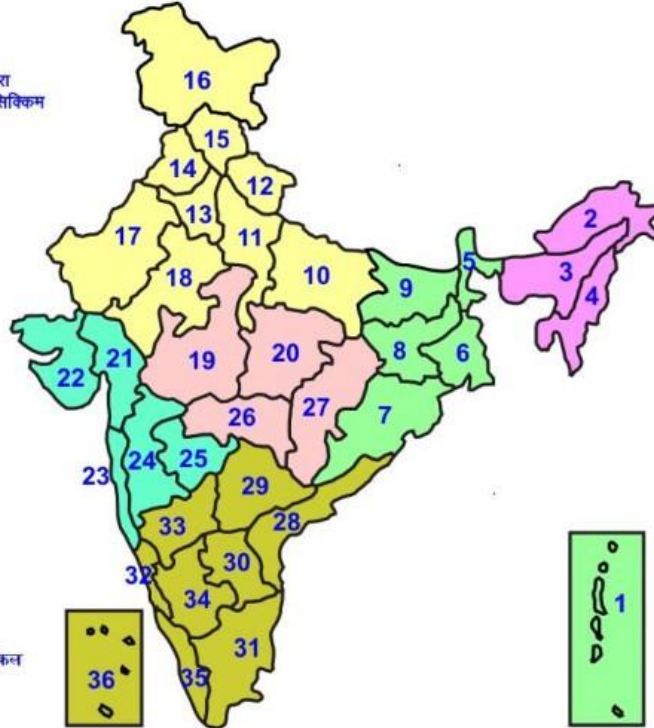
- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Livestock / Poultry

- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of overflow.
- In regions with high temperatures and heat waves, provide clean, hygienic, and ample drinking water for animals, and cover the roofs of poultry sheds with grass to reduce the adverse effects.

LEGENDS

- 1 अंडमान और निकोबार द्वीप समुद्र
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात
- 22 सौराष्ट्र
- 23 कोंकण एवं कच्छ
- 24 मध्य महाराष्ट्र
- 25 मराठावाड़ा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

SPATIAL DISTRIBUTION (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

Subdivision Colour

- NO WARNING
- WATCH (BE UPDATED)
- ALERT (BE PREPARED TO TAKE ACTION)
- WARNING (TAKE ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

- Heavy Rain
- Thunderstorm & Lightning
- Strong surface winds
- Cold Wave
- Hot & Humid
- Very Heavy Rain
- Hailstrom
- Heat Wave
- Cold Day
- Extremely Heavy Rain
- Dust Storm
- Hot Day
- Ground Frost
- Heavy Snow
- Dust Raising Winds
- Warm Night
- FOG

*Red color warning does not mean "Red Alert" Red color warning means "Take Action"

Forecast and warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit <https://mausam.imd.gov.in> or contact 011-2434-4599

(Service to the nation since 1875)

LEGENDS

WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm*
Extremely Heavy: > 204.4 mm/cm *



When maximum temperature of a station reaches $\geq 40^\circ\text{C}$ for plains and $\geq 30^\circ\text{C}$ for hilly regions
(a) Based on Departure from normal

Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C .
Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^\circ\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^\circ\text{C}$.
Severe Heat Wave: When actual maximum temperature $\geq 47^\circ\text{C}$

(c). Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^\circ\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^\circ\text{C}$



When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .
Severe Warm Night: When minimum temperature departure $> 6.4^\circ\text{C}$.



When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions.
(a). Based on departure

Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^\circ\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^\circ\text{C}$
Severe Cold Wave: When Minimum Temperature is $\leq 2.0^\circ\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^\circ\text{C}$ & actual Minimum Temperature is $\leq 15^\circ\text{C}$



When minimum temperature of a station $\leq 10^\circ\text{C}$ for plains and $\leq 0^\circ\text{C}$ for hilly regions
Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .
Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^\circ\text{C}$



Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres
Dense Fog: when the visibility between 50- 200 metres
Very Dense Fog: when the visibility < 50 metres



Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Ice deposits on ground

Air temperature $\leq 4^\circ\text{C}$ (over Plains)



A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph
Severe: Wind speed 62-87 kmph
Very Severe: Wind speed > 87 kmph



Effect of various waves in the sea over specific area

Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre
High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)